ALPATEC 30142

Characterisation

RTV 2 component silicone polymers for textile coating

Technical Data

	ALPATEC 30142 Component A	**ALPATEC 30142** Component B		
Colour	Transparent	Transparent		
Density	1.09	0.98	g/cm³	DIN 53479 [1]
Viscosity	70,000	500	mPa·s	Brookfield HBTD [1,] Sp.6/20 rpm
Catalysed mass				
Mixing ratio	10 : 1			in weight shares
Processing time	10		h	approx. 50 g, beaker method [1)]
Vulcanisate				
Hardness Shore A	32			DIN 53505 [2)]
Tensile strength	5.3		N/mm²	DIN 53504, S3A [2)]
Elongation at break	300		%	DIN 53504, S3A [2)]
Tear propagation resistance	14.0		N/mm	DIN 53504, S3A [2)]
Storage	Components A and B of ALPATEC 30142 can be optimally processed for at least six months if stored between 5 °C and 30 °C in tightly closed original containers			

[1] = measured under standard climate DIN 50 014-23/50-2
[2] = vulcanisate, measured after 1 h at 130 °C and storage of 24 h under standard climate DIN 50014-23/50-2
The platinum catalyst is contained in component A

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

- Free from heavy metals
- Good stability to chemicals
- Excellent mechanical properties
- High transparency
- Complies with Ökotex 100

Processing / Fixation

Weigh components A and B in a mixing ratio of 10 : 1 according to their weight shares and mix with a spatula or the stirrer until the mass is homogeneous. The pot life of approx. 10 hours where ALPATEC 30142 has to be

applied starts with the mixing. The paste can be coloured with silicone-pigments e.g. COLORMATCH SI dyes into the desired shades.
To keep the vulcanisate absolutely bubble-free degas the mixed silicone under vacuum (approx. 5 - 10 min at 10 - 20 mbar).
ALPATEC 30142 A with ALPATEC 30142 B is self-crosslinking. The standard recommandation for curing is 120 °C - 140 °C, 3 - 1 min.
A mechanical anchoring in the substrate makes this RTV 2 component silicone adhere. Therefore the silicone has to penetrate the substrate well and sufficiently.

Pot Life

Pot life starts with mixing. At 35 °C it is a approx. 10 h. Higher temperatures shorten the pot life, whereas lower temperatures prolong it.

Cleaning of Working Devices

KÖRASOLV GL is recommended for the cleaning of the apparatuses. Totally cured paste rests can be removed only mechanically or they can be torn off after total curing.

Please note: Inhibited Curing (Inhibition)

Certain substances can disturb or totally inhibit the curing behaviour of addition crosslinking substances. Typical signs are tacky surfaces of the silicone to the contact surface.
The following substances have to be taken into consideration critically:

- Nitrogenous substances (amines, polyurethanes, epoxy resins)
- Sulphurous substances (polysulphides, polysulphones, natural and synthetic rubber (EPDM))
- Organometal compounds (organotin compounds, vulcanisate and hardeners of condensation crosslinking silicones)
-

When working with unknown substrates a compatibility test has to be carried out at any rate.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Edition: September 2016
CHT R. BEITLICH GMBH
Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com